OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
SEP 28 1984
OIL CON. DIV.
DIST. 3

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 9-25-84	
Company: Caulkins Oil Company		Connection:			
Pool: Basin Dakota		Formation: Dakota			
Completion Date: 9-18-84	Total Depth: 7470'	Plug Back TD: 7470'	Elevation: 6563 Gr	Farm or Lease Name: Reuter	
Csg. Size: 5 1/2" / Wt.: 15.5# & / d: 4.950 / 4.892 / Set At: 7470'		Perforations: From 7426' To 7202'		Well No.: 321-E	
Tbg. Size: 1 1/2" / Wt.: 2.9# / d: 1.900 / Set At: 7333'		Perforations: From 7333' To		Unit: P / Sec.: 15 / Twp.: 26N / Rge.: 6W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Gas Multiple		Packer Set At: 5489'		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State: New Mexico	
L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					1239		PKR		7 Days
1.					67		PKR		3 Hours
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	14.1605		79	1.000	1.000	1.000	1,119
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1251 P_c^2 1,565,001

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	6,241	330	108,707	1,456,294
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.075$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.055$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,181$

Absolute Open Flow 1,181 Mcfd @ 15.025 Angle of Slope θ 75 Slope, n _____

Remarks: _____

Approved By Division	Conducted By:	Calculated By:	Checked By: